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10:CLASS 11:Atcm 12:Atcm 13:Atcm 14:Atcm 15:Atcm 16:Atcm 17:CLASS 18:CLASS
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FILE COVERS 1907 - 22 Sep 2004 VOL 141 ISS 13

FILE LAST UPDATED: 21 Sep 2004 (20040921/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L3 L4

4 L3

=> D 1-4 IBIB ABS HITSTR

USA
U.S. Pat. Appl. Publ., 113 pp., Cont.-in-part of U. S. Ser. No. 815,960.
CODEN: USXXCO Preparation of 5-amino-4-hydroxypentanoic acid derivatives, for treating Alzheimer's disease Hom, Koy; Mamo, Shumeye, Tung, Jay; Gailunas, Andrea; John, Varghese; Fang, Lewrence APPLECANTS L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 2003:43054 CAPLUS DOCUMENT NUMBER: 138:107007 Patent English 2 FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: INVENTOR (S):

20010323 2001002 DATE US 2001-960634 US 2001-816876 US 2001-815960 APPLICATION NO. 20030116 20020214 20020221 20040518 KIND PRIORITY APPLN. INFO.: US 2003013881 US 2002019403 US 2002022623 US 6737420 PATENT NO.

The Invention is directed toward substituted hydroxyethylene compds. having the fragment. HNGHRICH(HN) HTGTRICH 2004 [R. = alkyl, alkylthioalkyl, alkylthioalkyl, heteroyaryl, (hetero)aryl, (hetero)arylalkyl, beterocyclylalkyl, or heterocyclyls R2 = H, alkyl, cycloalkylalkyl, or (hetero)aryl for use in heterocyclyls R2 = H, alkyl, cycloalkylalkyl, or (hetero)aryl) for use in hetericy alfactment is disease and similar diseases. In an example, N-[(1S, 28, 4R)-1-(3,5-diluorobenzyl) -4-(syn, syn)-(3,5-diluorobenzyl) -4-(syn, syn)-(3,5-diluorobenzyl) -2-hydroxyhexyll-N,N-dipropylisophathalamide P 20000323 A2 20010323 A2 20010323 US 2000-191528P US 2001-815960 US 2001-816876 MARPAT 138:107007 OTHER SOURCE(S): AB

was prepared by solution-based methodol.
36480-29-39 56480-38-49
Ed. PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES Ħ

(preparation of amino(hydroxy)pentanoic acid derivs. for treating Alzheimer's disease)

362460-29-3 CAPLUS
1,3-Benzenedicarboxamide, N'-[(15,25,4R)-1-[(3,5-difluorophenyl)methyl]-2-hydroxy-4-methyl-5-[[2-(4-morpholinyl)ethyl]amino]-5-oxopentyl]-5-methyl-N.N-dipropyl- (9CI) (CA INDEX NAME) 2 Z

Absolute stereochemistry

362480-32-8 CAPLUS Z 5

1,3-Benzenedicarboxamide, N'-[(18,28,4R)-1-[(3,5-difluorophenyl)methyl]-2hydroxy-4-methyl-5-oxo-5-[[(tetrahydro-2-furanyl)methyl]amino]pentyl]-5methyl-N,N-dipropyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

3 3

362480-38-4 CAPLUS

1.3.5-Benzendicarboxamide, N'-[(18,28,4R)-1-[(3,5-difluorophenyl)methyl]-5[(2-furanylmethyl)amino]-2-hydroxy-4-methyl-5-oxopentyl]-5-methyl-N,Ndipropyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 2001:713293 CAPLUS DOCUMENT NUMBER: 135:273220

INVENTOR (S):

Preparation of hydroxyethylenes with peptide subunits for pharmaceutical use in the treatment of Alzheimer's How, Roy; Mamo, Shumeye; Tung, Jay; Gailunas, Andrea; John, Varghese; Fang, Larry Elan Pharmaceuticals, Inc., USA PCT Inc. Appl., 240 pp.
Por Inc. Appl., 240 pp.
Patent
Patent
Paglish

PATENT ASSIGNEE(S) SOURCE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: DOCUMENT TYPE:

APPLECANTS

AT, BE, CH, CY, PT, SE, TR, BF, TD, TG CA, CH, CN, GE, GH, GW, LK, LR, LS, PL, PT, RO, UG, UZ, VN, 20010323 NL, SE, MC, PT, P 20000323 W 20010323 20010323 20010323 J, SK, SL,
AZ, BY, KG, KZ,
MM, MZ, SD, SL, SZ, TL,
MM, MZ, SD, SL, SZ, TL,
FR, GB, GR, IE, IT, IU, MC, NL,
I, CM, GA, GN, GM, ML, NR, NE, SN, TD,
AZ 2001218 EP 2001-926424
DE, DK, ES, FR, GB, GR, II, IU, IU,
IV, FI, RO, MK, CY, AL, TR

J, V, FI, RO, MK, CY, AL, TR

WO 2001-US9501
WO 2001-US9501 WZ.C.O.K APPLICATION NO. WO 2001-US9501 AZ, DM, SP, SE, SP, SP, GR, SP, 001092 AT, DE, R: AT, BB, CH, DB, DK IE, SI, IT, IV, FI. JP 2003528071 PRIORITY APPLA: INFO.: KIND WO 2001070672 WO 2001070672 PATENT NO.

R SOURCE(S): MARPAT 135:273220
Hydroxyethylenes, such as RNHCHRICH(OH)CHZCHRZCOBR3 [R = peptidy] group, acyl, etc.; R1 = alkyl, alkenyl, arylalkyl, etc.; R2 = H, alkyl, cycloalkyl, arylalkyl, etc.; R3 = peptidyl group, B = O, NR4; R3 = alkyl, arylalkyl, etc.; R4 = H, alkyl, etc.], were prepared as agents for the treatment of Alzharher's disease. Thus, BoC.LVal.L.berKH.(S,S,S)-CH(CHZCHWe2)CH(OH)CH(CHRAC)CO-LAIL-LPhe-OH via a series of amide coupling reactions of the corresponding amino acids with the AB

OTHER SOURCE(S):

H

hydroxyethylene moiety. The prepared hydroxyethylenes were tested for psecrease inhibiting activity.

16480-29-39 1542480-33-8P 36480-38-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (USES)

(preparation of hydroxyethylenes with peptide subunits for pharmaceutical use in the treatment of Alzheimer's disease)

13-28-23-3 CAPLUS

13-28-macmedicarboxamaide, N'- ([3, 2, 4R)-1- ([3, 5-difluorophenyl) methyl]-2- hydroxy-4-methyl-5- [[2-(4-morpholinyl) ethyl] amino]-5-oxopentyl]-5-methyl-

Z Z

Absolute stereochemistry.

362480-32-8 CAPLUS

1.3. Senzemendicatboxamide, N'-[(1S,2S,4R)-1-[(3,5-difluorophenyl)methyl]-2-hydroxy-4-methyl-5-oxo-5-[([tetrahydro-2-furanyl)methyl)methyl-5-methyl-N'N-dipropyl- (9CI) (CA INDEX NAME) Z Z

Absolute stereochemistry.

Z Z

362480-38-4 CAPLUS

J. 3-Benzenedicarboxamide, N'-[(15,25,4R)-1-[(3,5-difluorophenyl)methyl]-5[(2-fuzanylmethyl)amino]-2-hydroxy-4-methyl-5-oxopentyl]-5-methyl-N.Ndipropyl- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

4 CAPLUS COPYRIGHT 2004 ACS on STN: 1998:207292 CAPLUS L4 ANSWER 3 OF 4 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

128:270871
Preparation of azolyl dipeptide analogs as retroviral protease inhibitors
Carr, Thomas Joseph; Demarsh, Peter Lawrence; Dreyer, Geoffrey Bainbridge; Fenwick, Ashley Edward Smithkline Beecham Corporation, USA

PATENT ASSIGNEE(S): INVENTOR(S):

CODEN: USXXAM Patent English DOCUMENT TYPE: SOURCE:

LANGUAGE:
FAMILY ACC. NUM. CC
PATENT INFORMATION:

US 1995-396356 US 1994-193026 APPLICATION NO. MARPAT 128:270871 19980331 DATE KIND ø US 5733882
PRIORITY APPLN: INFO.:
OTHER SOURCE(S): PATENT NO.

19950228

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25 JAN 2002

$$R_{2} \xrightarrow{R_{1}} R_{2}$$

$$R_{2} \xrightarrow{R_{2}} R_{3} \qquad I$$

$$ChMe_{2} \xrightarrow{R_{1}} R_{2}$$

$$Cbz_{H} \xrightarrow{R_{2}} N$$

$$Bock \qquad R_{2} \xrightarrow{R_{2}} R_{3}$$

H

OTBS CH2Ph

analogs I [R1, R3 = independent) with the parameter of alkyl, Q-C2-6 alkyl, Q-C2-6 alkyly, Q-C2-6 alkyly, Q-C2-6 alkyly, Q-C2-6 alkyly, Q-C2-6 alkyly, C1-6 alkyl substituted by 1.5 F atoms; Q = H, C3-6 cycloalkelyl, C3-6 cycloalkelyl, E3-6 cycloalkelyl, E3-6 cycloalkelyl, E3-6 cycloalkelyl, R3-8 F3-10, G1, R4 = R6NR11, CONRILCHERRY, R3-8 F3-10, G1, R3-10, G2-6 alkenyl, R8-8 F3-10dependently H, OH, halo, NO2, acyl, CF3, aryl, etc.; RRP3 = fused C2-4 alkylene, aryl, heterocyclyl; R10 = A-(B)n; R11 = H, C1-4 alkyl, B = amino acid; A = H, (un) substituted aryl, heterocyclyl, aryl-W, heterocyclyl-W, phthaloyl, etc.; W = C0, O2C, NR11CS, SOZ, NR11SOZ, P(0) (0R22); R22 = H, C1-6 alkyl, Ph, phenyl-C1-4 alkyl, with provisol, or a pharmaceutically acceptable salt thereof, which bind to retroviral proteases. These compds. are inhibitors of retroviral proteases and are useful for treating diseases related to infection by retroviruses. Thus, cyclocondensation of protected valinal Deprotection of II, followed by coupling with dipeptide isostere III, and final desilylation gave desired title compound IV as its HCl salt. The prepared compds., including IV, showed inhibition of HIV-1 protease with Ki = 1 nM to 5 µM, and inhibited infection of cells with the HIV virus invention provides compds., more particularly dipeptide to 10 µM IC50 = 0. with Æ

149356-76-3P 149356-77-4P 149356-79-6P 149356-81-0P

H

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassfited); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of azolyl dipeptide analogs as retroviral protease inhibitors)

149356-76-3

2 5

Benzenehexanamide, δ-(benzoylamino)-γ-hydroxy-N-[1-(lH-imidazol-2-γ1)-2-methylpropyl]-α-(phenylmethyl)-, [αR-[N(S*), αR*, γS*, δS*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry

149356-77-4 CAPLUS
Benzenehexanamide, y-hydroxy-N-[1-(1H-imidazol-2-yl)-2-methylpropyl]5-[(4-methoxybenzoyl)amino]-α-(phenylmethyl)-,
[αR-[N(S*),αR*,γS*,δS*]]- (9CI) (CA INDEX NAME) Z Z

Absolute stereochemistry

Absolute stereochemistry.

Absolute stereochemistry.

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 23 REFERENCE COUNT:

JS COPYRIGHT 2004 ACS on STN 1993:517245 CAPLUS 119:117245 Preparation of N-imidazolylalkyl-5-amino-4-hydroxyhexanamides and analogs as retroviral protease inhibitors Carr, Thomas Joseph; DeMarsh, Peter Lawrence; Penwick, Ashley Edward Smithkline Beecham Corp., USA PCT Int. Appl., 146 pp. CODEN: PIXXD2 Patent English CAPLUS LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: L4 ANSWER 4 OF 4
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE: PATENT ASSIGNEE(S): DOCUMENT TYPE: INVENTOR(S): SOURCE:

19920717 19920717 19920717 CS, DE, DK, ES, FI, GB, HU, JP, KR, US GB, GR, IT, LU, NL. SF 19920420 19920717 19920717 19920717 19910717 19930121 DATE AU 1992-24129 CN 1992-109761 ZA 1992-5360 EP 1992-917238 US 1991-731563 US 1992-870975 WO 1992-US6047 APPLICATION NO. WO 1992-US6047 JP 1992-503016 ES 1993-107 Ä 19930428 19930614 19940622 IT, LI, 19950119 19951101 19930204 CA, CH, RU, SE, ES, FR, 19930223 KIND AU, BB, NL, NO, BE, CH, R: BE, CH, DE, JP 07500577 ES 2068739 ES 2068739 PRIORITY APPLAN. INFO.: B, W: AT, RW: AT, AU 9224129 CN 1071434 ZA 9205360 EP 602069 WO 9302057 PATENT NO.

R5CHRICH(OH) CHR2CHR3R4 [I; R1, R3 = fluoroalkyl, cycloalk(en)yl(alkyl), arylalkyl), detc: R2 = H, OH; R4 = azolylamino, arylalkyl), checrocyclylalkyl); R5 = aubstituted aminol were prepared Thus, Me2CHCHRNH2 (R = imidazol-2-yl) (preparation given) was condensed with (2R, 4S, 5S)-PentzaCH(NHCOZCHes) (PHCORG) (II; R6 = Simbaches), R7 = OH) to give, after deprotection, II (R6 = H, R7 = NHCHRCHMe2, R = imidazol-2-yl). I had Ki of 1 nm to 5 µM for inhibition of HIV-1 MARPAT 119:117245 OTHER SOURCE(S):

149356-76-3P 149356-77-4P 149356-79-6P 149356-81-0P

H

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as retrovixal protease inhibitor) 14936-76-3 CAPLUS

Z 3

Benzenehexanamide, δ -(benzoylamino)- γ -hydroxy-N-[1-(lH-imidazol-2- γ 1)-2-methylpropyl]- α -(phenylmethyl)-, [α R-[R(S*), α R*, γ S*, δ S*, δ S*]- (9CI) (CA INDEX NAME)

Absolute stereochemistry

Benzenehexanamide, γ-hydroxy-N-[1-(1H-imidazol-2-γ1)-2-methylpropyl]δ-[(4-methoxybenzoyl)amino]-α-(phenylmethyl)-,
[αR-[N(S*),αR*,γS*,δS*]]- (9CI) (CA INDEX NAME) 149356-77-4 CAPLUS 2 Z

Absolute stereochemistry

149356-79-6 CAPLUS
Benzenehcxanamide, γ-hydroxy-8-[(4-hydroxybenzoyl)amino]-N-[1-(1H-imidazol-2-γ1)-2-methylpropyl]-α-[phenylmethyl)-,
[αR-[N(S*),αR*,γS*,δS*]]- (9CI) (CA INDEX NAME) Z Z

Absolute stereochemistry

149356-81-0 CAPLUS
Benzenehexanamide, rhydroxy-8-[(2-hydroxybenzoyl)amino]-N-[1-(11-imidazol-2-yl)-2-methylpropyl]-a-(phenylmethyl)-,
[aR-[N(S*), cR*, YS*, SS*]]- (9CI) (CA INDEX NAME) **3 3**

Absolute stereochemistry.

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